

In the Claims:

Please amend the claims as indicated.

Claims 1-38 (Cancelled)

39. (~~Currently Amended~~) A transparent capacitive touch sensing system ~~The system of claim 34, in which said plurality of substantially transparent sensors form a transparent capacitive touch sensing system comprising:~~

a plurality of substantially transparent conductive traces in one axis disposed on a single substrate forming a sensory array covering a portion of said substrate, each said substantially transparent conductive trace capacitively senses an input object when proximate to each said substantially transparent conductive trace, for sensing capacitive coupling between a user's touch said input object and the said sensory array along one axis; and

a sensing device for detecting capacitance changes on ~~the transparent~~ said sensory trace array.

40. (Currently Amended) The system of claim 39, further including a position detector for determining ~~the~~ a position of an said input object on near said sensory array.

41. (Previously Added) The system of claim 39, further including a system that recognizes tap gestures.

42. (Currently Amended) The system of claim 39, ~~in which~~ wherein said sensor array substrate is made on a flexible, transparent substrate.

43. (Currently Amended) The system of claim 39, ~~in which~~ wherein said sensor array substrate is made on a rigid, transparent substrate.

44. (Currently Amended) The system of claim 39, ~~in which~~  
wherein the a bottom of the sensor y trace array is electrically shielded using a  
substantially transparent ground plane.

45. (Currently Amended) The system of claim 39, ~~in which~~  
wherein said sensory trace array is mounted atop a display device.

Claims 46-54 (Cancelled)

55. (Currently Amended) ~~The system of claim 46, in which A~~  
transparent capacitive touch sensing system comprising:

a substantially transparent two-dimensional sensory array consisting  
of a plurality of substantially transparent conductive traces in an X axis and a  
plurality of substantially transparent conductive traces in a Y axis for sensing  
capacitive coupling between an input object and said sensory array along two  
axes, wherein a the bottom of said sensory array is electrically shielded using a  
substantially transparent ground plane;

a substantially transparent electrically insulating material separating  
said plurality of X traces from said plurality of Y traces; and

a sensing device for detecting capacitance changes on said sensory  
array.

Claims 56-59 (Cancelled)

60. (Currently Amended) ~~The system of claim 46, in which A~~  
transparent capacitive touch sensing system comprising:

a substantially transparent two-dimensional sensory array consisting of a plurality of substantially transparent conductive traces in an X axis and a plurality of substantially transparent conductive traces in a Y axis for sensing capacitive coupling between an input object and said sensory array along two axes, wherein said ~~sensor~~ conductive traces form a substantially space-filling pattern;

a substantially transparent electrically insulating material separating said plurality of X traces from said plurality of Y traces; and

a sensing device for detecting capacitance changes on said sensory array.

61. (Currently Amended) The system of claim 60, ~~in which wherein said transparent sensory array is composed of~~ comprises a plurality of layers including ~~substrate layers, anti reflective coating layers, refractive index matching layers, and adhesive layers, all of said layers~~ having approximately the same index of refraction.

62. (Currently Amended) The system of claim 60, ~~in which wherein said sensory array is mounted~~ atop a display device.

63. (Currently Amended) The system of claim 60, ~~in which wherein said sensory array is mounted~~ beneath a clear protective covering for a display device.

64. (Previously Added) In combination:  
a liquid crystal display having a top polarizer layer; and  
a transparent touchpad disposed on said top polarizer layer,  
including

a plurality of first conductors disposed along an X axis directly on said top polarizer layer; and

a plurality of second conductors disposed along a Y axis and insulated from said plurality of first conductors disposed along said X axis.

65. (Previously Added) The combination of Claim 64, wherein an insulating layer insulates said plurality of first conductors disposed along said X axis from said plurality of second conductors disposed along said Y axis.

66. (Previously Added) The combination of Claim 64, further comprising an adhesive layer disposed on one of said first and said second plurality of conductors.

67. (Previously Added) The combination of Claim 66, further comprising a transparent layer disposed on said adhesive layer.

68. (Previously Added) In combination:  
a liquid crystal display having a top polarizer layer; and  
a transparent touchpad disposed on said top polarizer layer, including a plurality of conductors disposed along at least one axis directly on said top polarizer layer.

69. (Previously Added) In combination:  
a cathode ray tube having a glass envelope; and  
a transparent touchpad disposed on said glass envelope, including a plurality of first conductors disposed along an X axis directly on said glass envelope; and

a plurality of second conductors disposed along a Y axis and insulated from said plurality of first conductors disposed along said X axis.

70. (Previously Added) The combination of Claim 69, wherein an insulating layer insulates said plurality of first conductors disposed along said X axis from said plurality of second conductors disposed along said Y axis.

71. (Previously Added) The combination of Claim 69, further comprising an adhesive layer disposed on one of said first and said second plurality of conductors.

72. (Previously Added) The combination of Claim 71, further comprising a transparent layer disposed on said adhesive layer.

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73. (Previously Added) In combination:  
a liquid crystal display; and  
a transparent touchpad disposed on said liquid crystal display,  
including  
a plurality of first conductors disposed along an X axis directly on said liquid crystal display; and  
a plurality of second conductors disposed along a Y axis and insulated from said plurality of first conductors disposed along said X axis.

74. (Previously Added) The combination of Claim 73, wherein an insulating layer insulates said plurality of first conductors disposed along said X axis from said plurality of second conductors disposed along said Y axis.

75. (Previously Added) The combination of Claim 73, further comprising an adhesive layer disposed on one of said first and said second plurality of conductors.

76. (Previously Added) The combination of Claim 75, further comprising a transparent layer disposed on said adhesive layer.

77. (Currently Amended) In combination:  
a fingerprint sensor having a surface ~~top~~ layer; and  
a transparent touchpad disposed on said ~~top~~ surface layer, including a plurality of conductors disposed along at least one axis directly on said top layer.

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78. (Previously Added) In combination:  
a graphic underlay; and  
a transparent touchpad disposed on said graphic underlay, including a plurality of conductors disposed along at least one axis directly on said graphic underlay.

79. (New) A substantially transparent capacitive sensor comprising:

an active area configured to accept input from a conductive object, said active area including a plurality of substantially transparent conductive traces disposed in an X axis and a plurality of substantially transparent conductive traces disposed in a Y axis;

wherein the capacitive sensor has a substantially uniform transmissivity within said active area.

80. (New) The substantially transparent capacitive sensor of Claim 79, wherein said plurality of substantially transparent conductive traces disposed in said X axis and said plurality of substantially transparent conductive traces disposed in said Y axis together substantially occupy said active area.

*Amended* 81. (New) The substantially transparent capacitive sensor of Claim 79, wherein said plurality of substantially transparent conductive traces disposed in said X axis and said plurality of substantially transparent conductive traces disposed in said Y axis are aligned to maximize transparency.

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